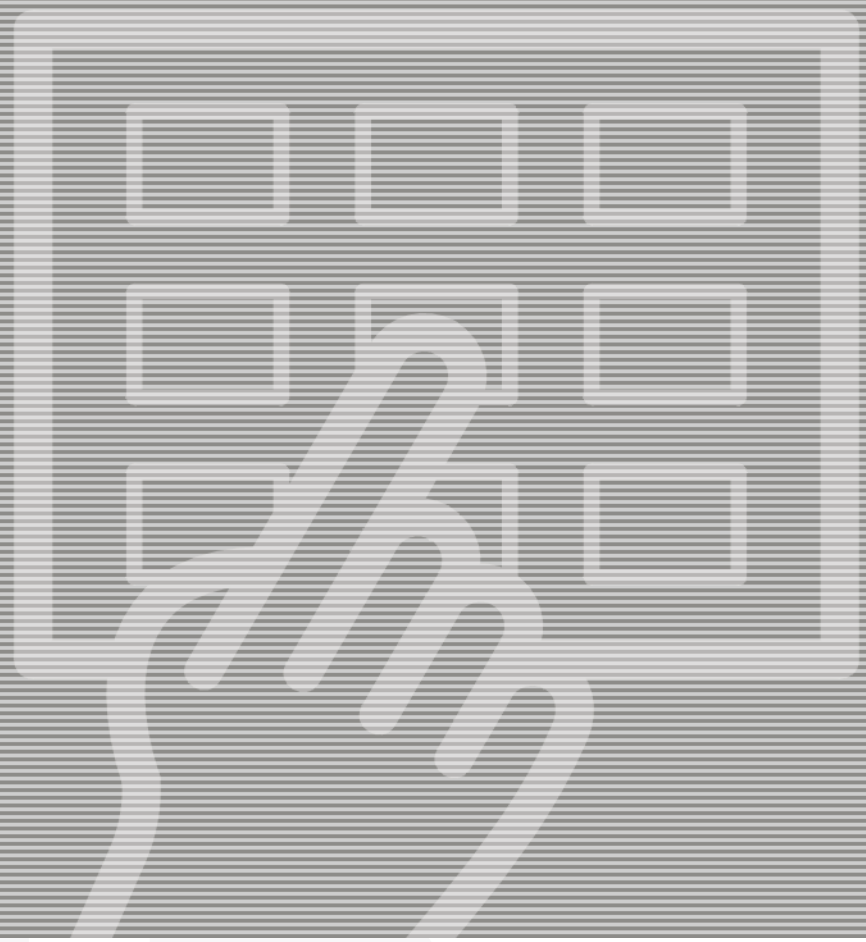
User's Manual



CONCEPT 301 LF

GLUNZ & JENSEN
DEGRAF

User's Manual

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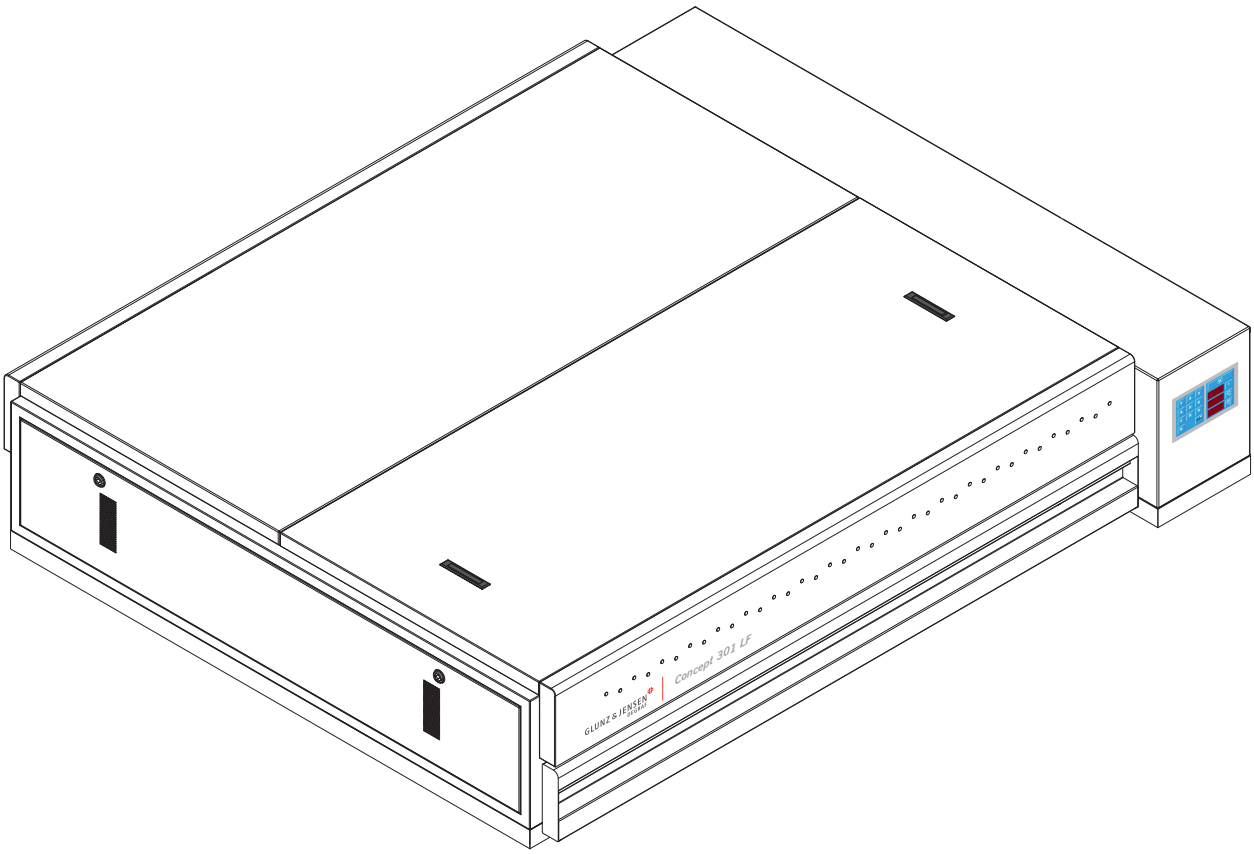

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Always read the *Safety Instruction Manual part No 21741* before installing or operating the equipment.

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Part 1: General information

About this manual

Intended use of this manual

This manual describes the common use procedures of the unit. It is intended for the daily user and should be kept with the equipment for reference at all times.

Reservations

- This manual was written and illustrated using the best possible information available at the time of publication.
- Any differences between this manual and the equipment reflect improvements introduced after the publication of the manual.
- Changes, technical inaccuracies and typographic errors will be corrected in subsequent editions.
- As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

Notes, cautions, and warnings !

Throughout the manual notes, cautions, and warnings are written in bold like the example below:

Electrical installation must conform to local regulations and guidelines.

Symbol	Meaning	Explanation
	Note	The operator should observe and/or act according to the information in order to obtain the best possible function of the equipment.
	Caution	The operator must observe and/or act according to the information in order to avoid any mechanical or electrical damage to the equipment.
	Warning	The operator must observe and/or act according to the information in order to avoid any personal injury.

Unintended use of the equipment

Glunz & Jensen Degraf S.p.A. does not take any responsibility for any damage or accidents caused by unintended use of the equipment:

- It is absolutely prohibited to make any modifications, electrical nor mechanical, of the equipment. If however this prohibition is disregarded, Glunz & Jensen Degraf S.p.A.'s warranty will no longer apply.

Intended use of the equipment

- This unit is a part of a full range dedicated for the treatment of flexographic printing plates. This range includes exposure, processor, dryer and light finisher.
- This unit is designed to post-expose/light finish of flexographic printing plates.

Installation

- Never install the unit in explosive environments.
- It is the responsibility of the owner and operator/s of this unit that the installation is made in accordance with local regulations, and by engineers authorized to carry out plumbing and electrical installations.
- Installation, service and repair must be performed only by Service Technicians who are trained in servicing the equipment.
- The manufacturer cannot be held responsible for any damage caused by incorrect installation of this unit.
- The unit is intended for installation in a restricted access location only.

Service assistance

- If help is needed to correct any problem with the equipment, please contact your supplier.

Part 2: Daily use

General

This unit is designed to post-expose and light finish of flexographic printing plates after drying process.

This unit is equipped with a specific control panel which ensures very easy control.

Safety warnings

To use this unit safely, it is necessary that operators and maintenance people follow the safety instructions and safety cautions and warnings specified in the manuals.

For the safety of operators, the unit is equipped with interlock switches for the opening of the light finisher drawer during operation and for removing of the rear panel of the unit.

If any of the interlocks are not installed or closed, the unit will not operate. If an interlock is activated during operation, the unit stops immediately.

Do not open the side or rear panels during plate processing.

For handling the plates use a safety gloves.

Initial operation of the unit

Make sure the room temperature is between 17 and 28°C (63 and 82°F) and relative humidity on max. 80%.

Before turning the unit on make sure that the working area around the unit is clean and free for easy movement.

Check all the required supplies and connections (power cable and exhausts).

- Turn on the main switch of the unit located at the rear side of the unit.

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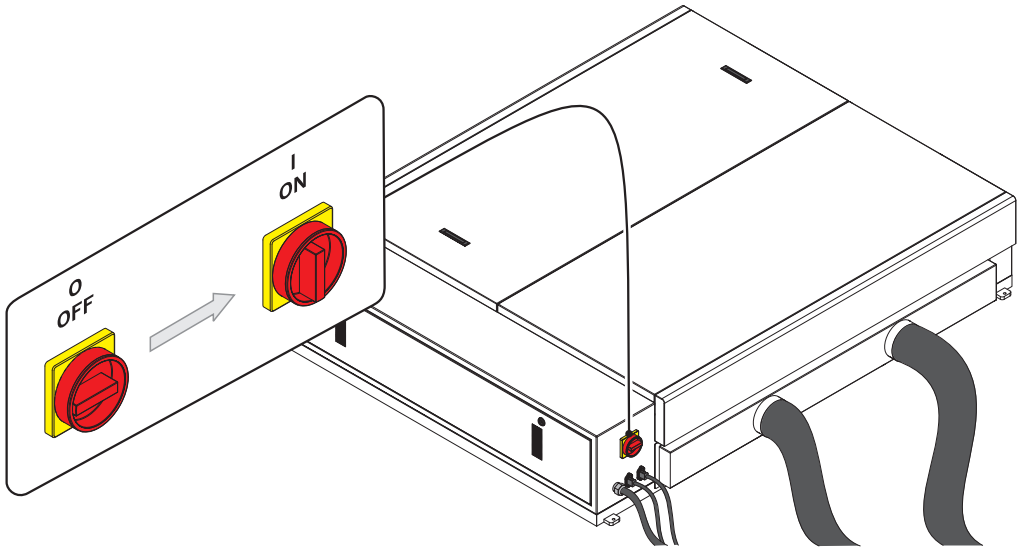

- Switch the unit on by pressing [%] button on the control panel of the unit.

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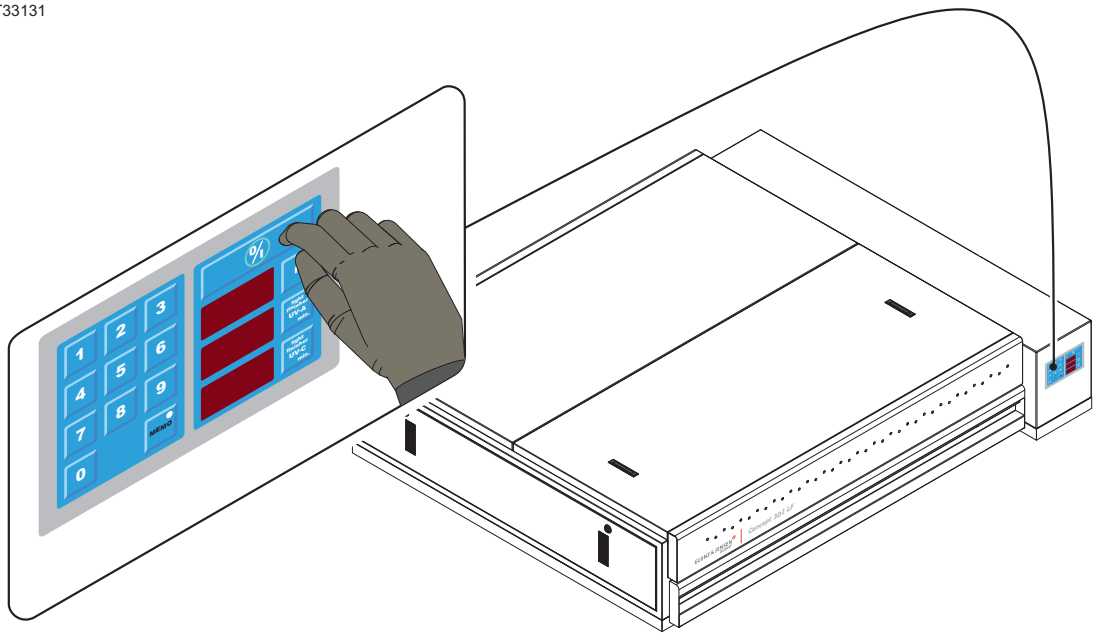
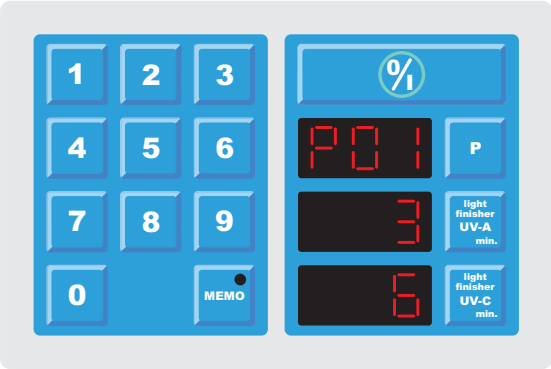


Plate selection

It is possible to store 10 plates/times in the memory (program 01 - 09).

To select/display the plate/time, press P button and the program number, e.g. 0 and 1.

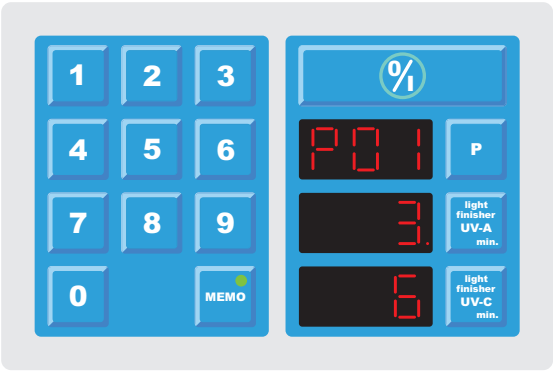
Now are displayed stored values for the program.



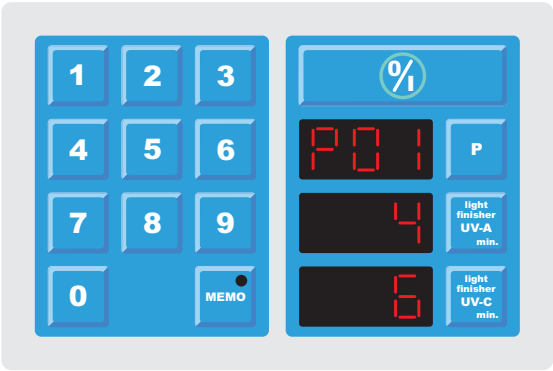
Values modification

To change the time value, press MEMO button and then either light finisher UV-A min. or light finisher UV-C min. depending on required cycle.

Small dot is then displayed in the right bottom corner of the corresponding window as well as the LED of MEMO button lights steady green (indicates possibility to modify the value). Enter the new value by using the numeric keyboard and then press MEMO button to confirm. Afterwards the dot disappears and the LED of MEMO button is off.



editing possible



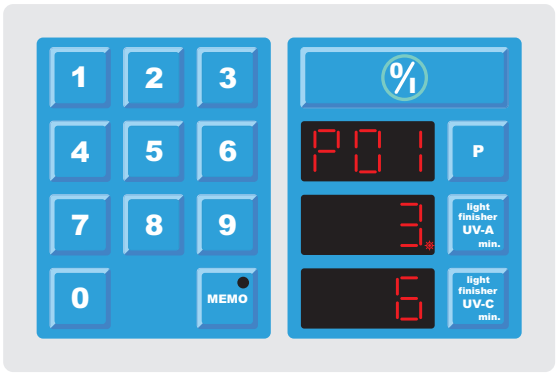
new value confirmed

Part 3: Making plates

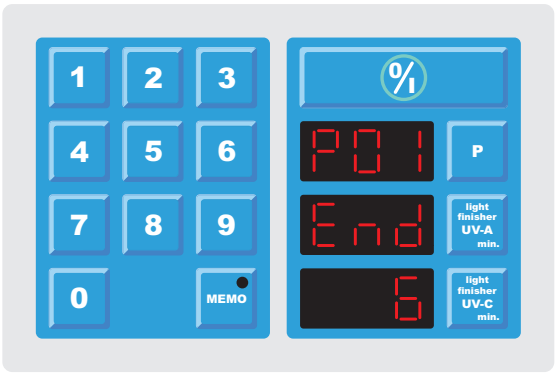
Starting a light finisher cycle

For handling the plates use a safety gloves.

- Pull out the light finisher drawer and put the plate in.
- Close the light finisher drawer.
- Press P button and the program number, e.g. 0 and 1.
- Check that all times are correct.
- To start a light finisher or post exposure cycle, press either light finisher UV-A min. or light finisher UV-C min. depending on required cycle.
- During whole process, the dot in the right bottom corner of the corresponding window flashes red.
- At the end of the cycle the window displays End.



ongoing cycle



finished cycle

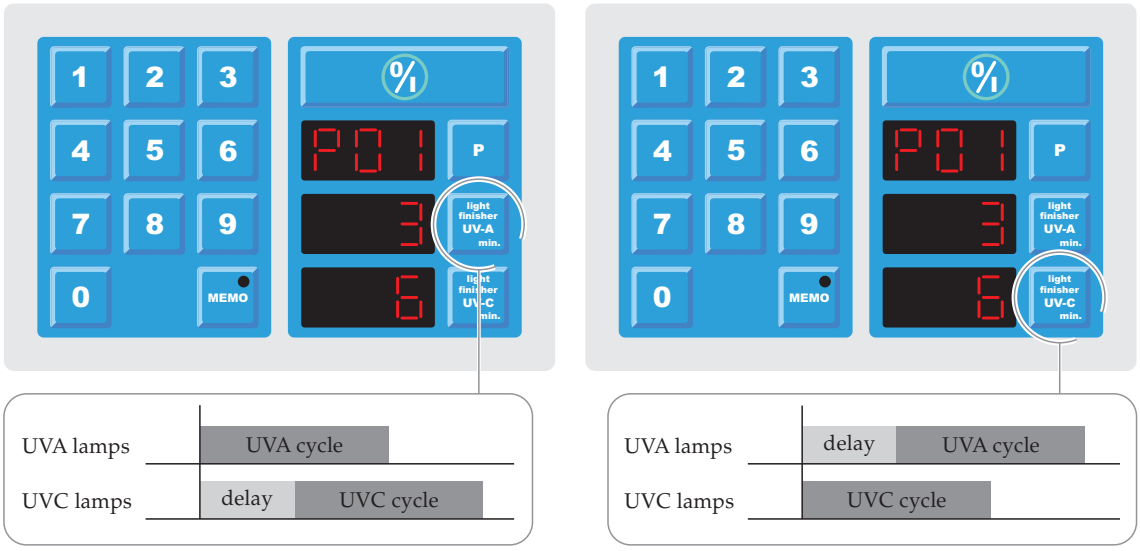
- To clear the display, remove the plate from the light finisher drawer and press the corresponding button.

Specific cycle

The unit offers the possibility to have an automatic sequence of post-exposure and light finishing.

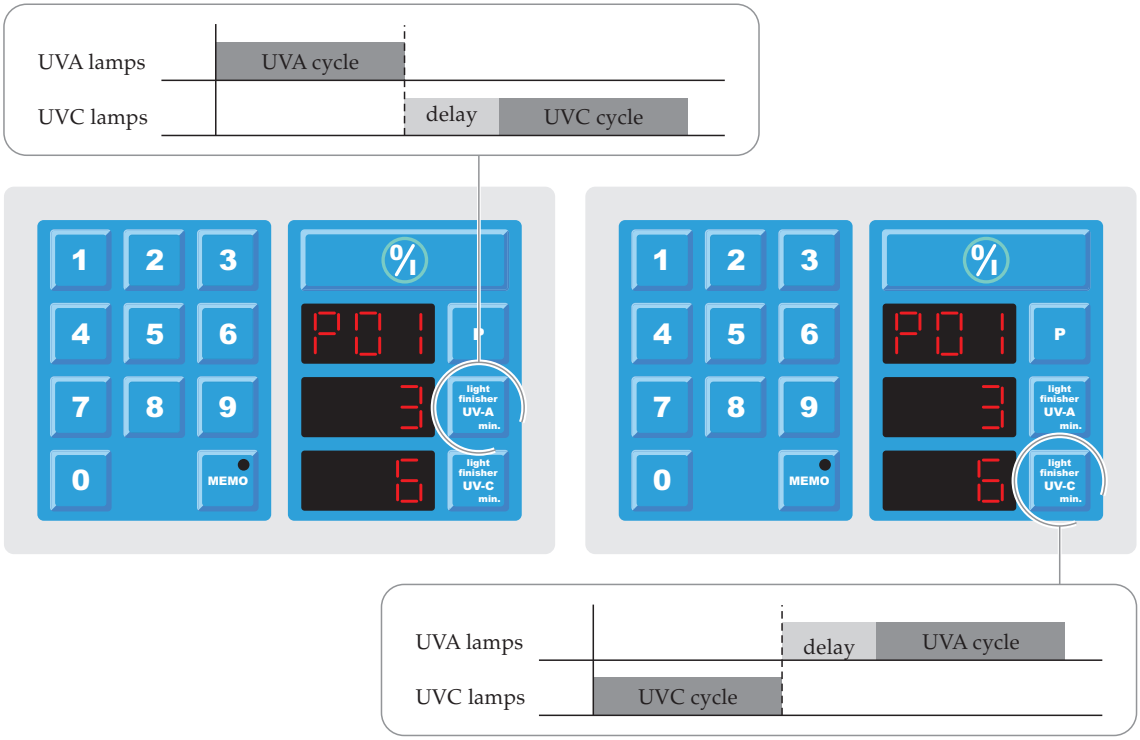
Combined exposures

If this function has been enabled (refer to "Unit setup" in the unit's Service Manual), the UVA cycle is followed by UVC cycle **after a preset delay** and vice versa.



Sequence exposures

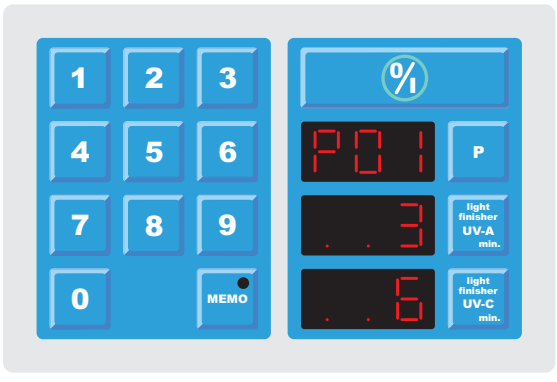
If this function has been enabled (refer to "Unit setup" in the unit's Service Manual), the UVA cycle is followed by UVC cycle **after UVA cycle end and a preset delay** and vice versa.



These two different specific cycles can be started in reversed order by starting first UVA or UVC cycle.

When one of these cycles is selected, the dot is flashing red in the window of ongoing cycle and the dot lights steady red in the window of cycle waiting to start.

When the drawer is open, the red dots are displayed in front of the cycles times.

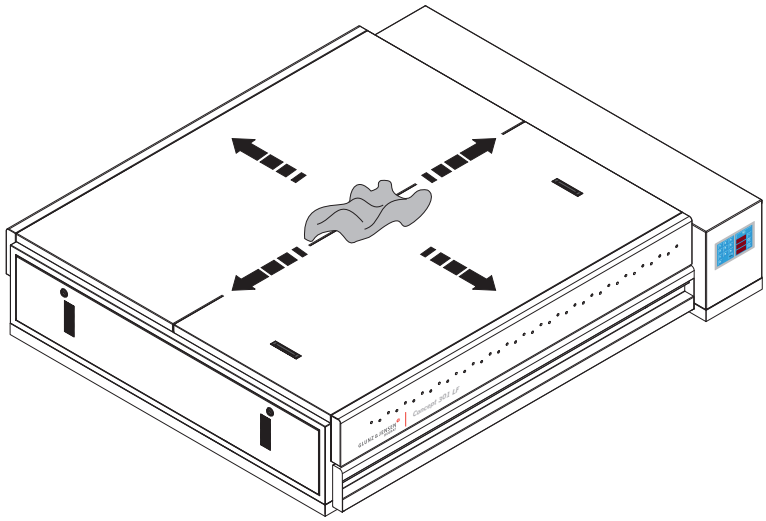


drawer open

Part 4: Maintenance

Cleaning the unit

- Clean the unit covers from dust and dirt by using a clean damp cloth.



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UV lamps replacement

General

- The tube is fragile, take a great care while unpacking, moving and installing the tube.
- Only clean tubes ensure uniform light emission. Before installation, ensure the tubes are clean.
- Perspiration and sebaceous oil from the skin form white smudges which become etched on the quartz surface of the tube, when the tube reaches its normal operating temperature. The etched areas of the tubes inhibit the transmission of the desired UV energy.

Make sure the unit is turned off and disconnected from the electricity supply, the mains supply is locked off using a padlock or similar, and then a check made to ensure that the unit will not run.

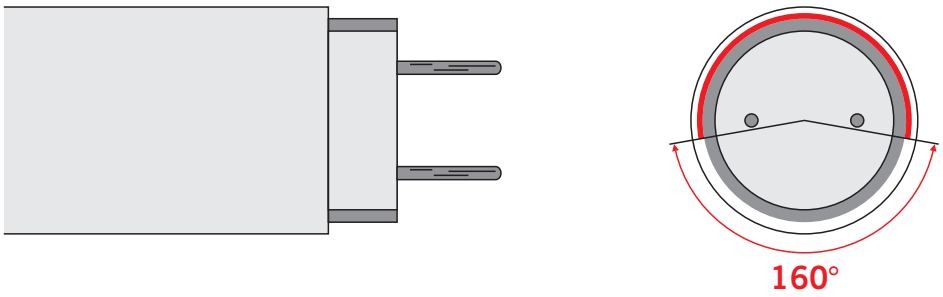
Do not handle the tubes with bare hands. Wear cut resistant gloves.

Always use safety glasses when handling lamps.

Fluorescent tubes contain small amounts of mercury. Used lamps should be disposed according to local laws and regulation.

UV-C light radiation is dangerous for human skin and particularly the eyes. Even a short exposure time may cause burnings in the lower skin layers and damages the eyes retina. Due to the *safety* systems installed, it should never be required to check the UV-C tubes by view the UV-C light directly when operating, maintaining or servicing the unit. However, in case of need it is mandatory to wear a welding helmet with at least shade 6, safety clothes and gloves.

The UVA exposure tubes have a built-in reflector which is applied in a semi-circle over the entire length of the tube. The reflector is recognizable by the white no transparent colouring of the glass in the tube. The reflector is designed to direct the light. When installing ensures that the reflection side is correctly located (non transparent section should be directed toward the plate.



If lamps are broken, ventilate area where breakage occurred. Clean up with mercury vacuum cleaner or other suitable means that avoid dust and mercury vapor generation. Take usual precautions for collection of broken glass. Use cut resistant gloves and appropriate respirator. Clean up requires special care due to mercury droplet proliferation. Place materials in closed containers outside the building to avoid generating dust.

Light finisher lamps replacement

Make sure the unit is turned off and the main switch is locked in "OFF" position.

Two persons are required to carry out this replacement.

- Pull out the light finisher drawer and remove it.
- Remove 8 screws securing the rear panel and remove the panel. Access to the lamps is now possible from the front and rear side of the unit.

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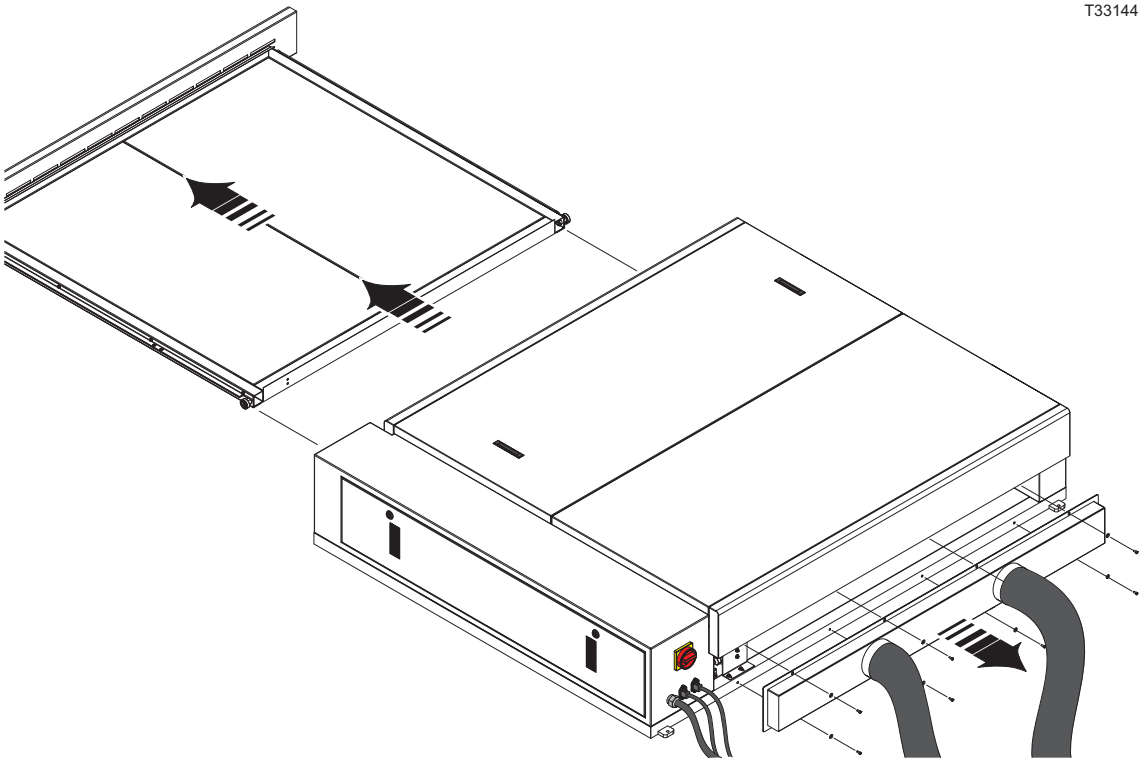
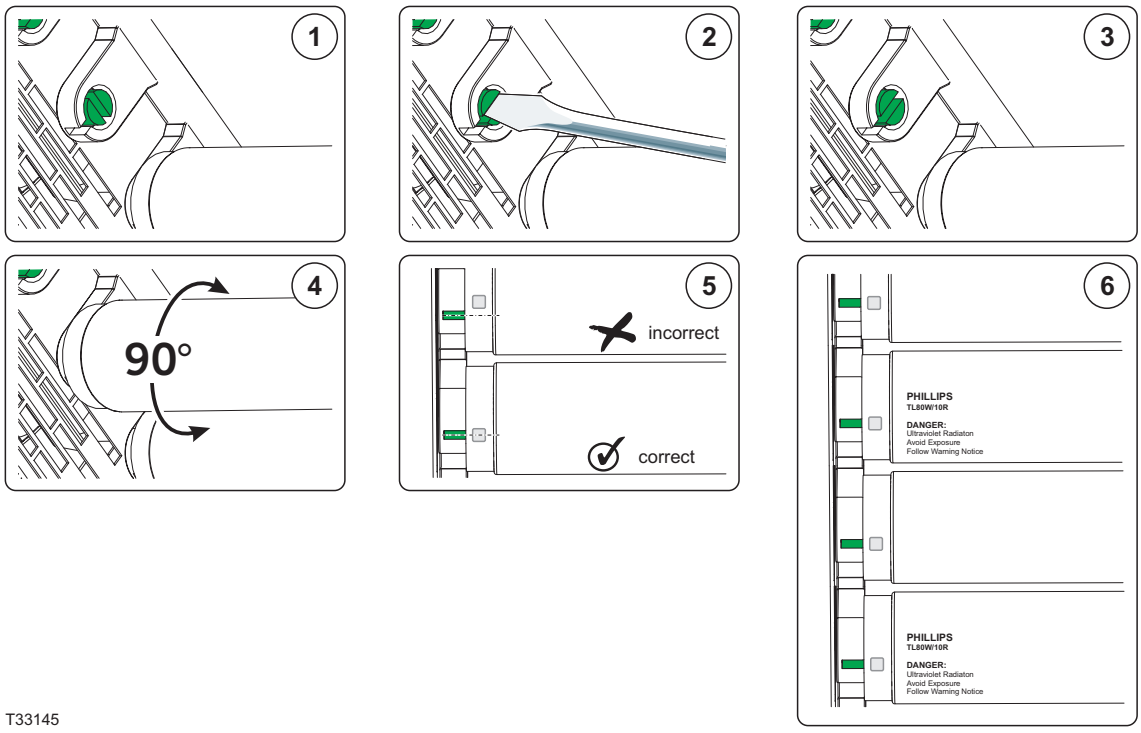


- Remove the lamps by turning them 90°.
- Make sure that the socket position is correct on both sides for inserting the UV lamp. To adjust the socket correctly it is recommended to use a flat screwdriver.
- Insert the new lamp in the socket on both sides and lock it by turning 90°.
  Note the little mark on the UV lamp ring which must be visible (in line with the socket opening) when the lamp is installed correctly. Make sure that the lamps are installed in alternate left/right position to ensure proper light distribution.



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- Reinstall the uninstalled parts in reversed order.

The UVA and UVC fluorescent lamps contain mercury. Dispose them according to local, state or federal laws.